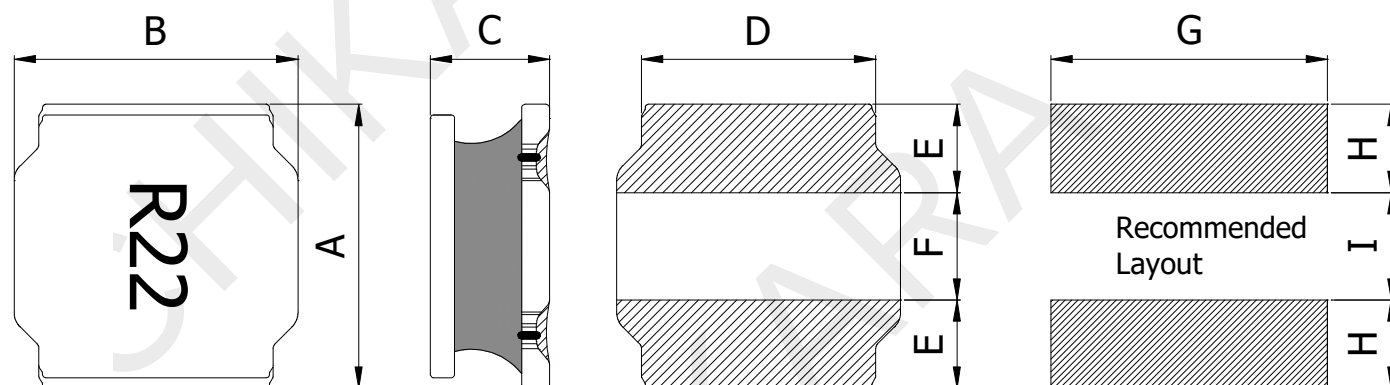


Features

- Magnetic-resin shielded construction
- Storage temperature range:-40°C to + 125°C
- Operating temperature range:-40°C to + 125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:3000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
4.0±0.2	4.0±0.2	2.0Max.	3.1±0.3	0.95±0.3	2.1±0.3	3.7	1.1	1.9

Part Number Description

SP07 - 040020 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

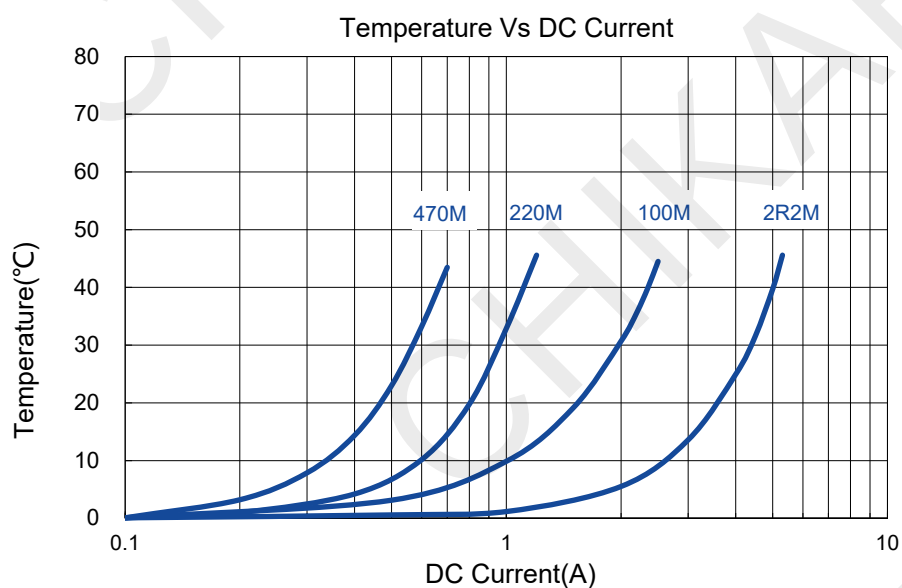
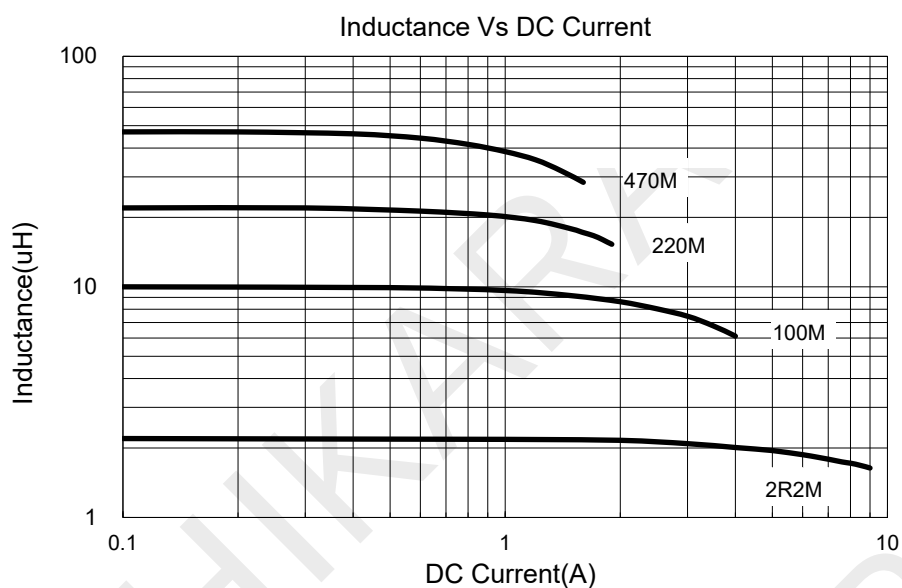


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP07-040020R22M	0.22±20%	0.011	18.7	22.0	8.20	9.50	108
SP07-040020R47M	0.47±20%	0.018	13.4	15.5	6.40	7.40	72
SP07-040020R68M	0.68±20%	0.018	8.70	11.1	6.40	7.40	57
SP07-0400201R0M	1.0±20%	0.022	8.70	11.1	5.80	6.70	37
SP07-0400201R5M	1.5±20%	0.030	7.70	9.60	5.20	6.00	30
SP07-0400202R2M	2.2±20%	0.040	6.10	7.60	4.30	5.00	25
SP07-0400203R3M	3.3±20%	0.060	4.70	5.90	3.45	4.00	19
SP07-0400204R7M	4.7±20%	0.090	4.00	4.90	2.85	3.30	17
SP07-0400206R8M	6.8±20%	0.130	3.00	4.20	2.40	2.80	13
SP07-040020100M	10±20%	0.180	2.80	3.50	2.00	2.35	11
SP07-040020120M	12±20%	0.220	2.30	3.20	1.50	1.90	10
SP07-040020150M	15±20%	0.305	2.10	2.80	1.00	1.20	9.0
SP07-040020220M	22±20%	0.415	1.30	1.50	0.95	1.10	8.0
SP07-040020330M	33±20%	0.650	1.20	1.40	0.70	0.86	7.0
SP07-040020470M	47±20%	0.950	1.10	1.30	0.56	0.66	5.5

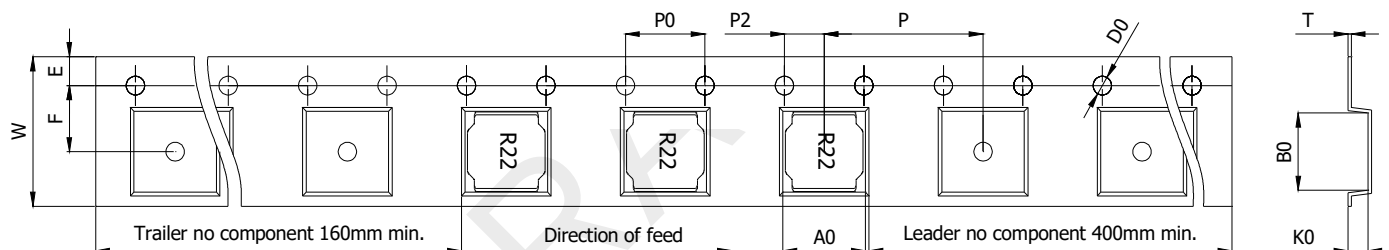
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 40V.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

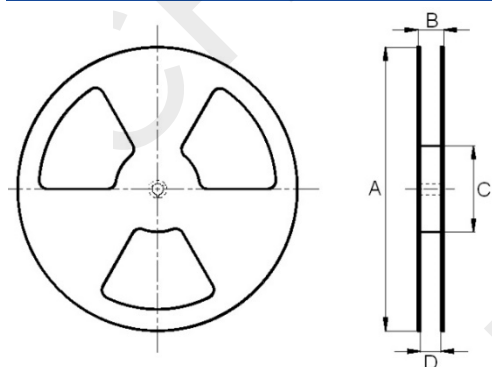
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
12.0±0.3	8.0±0.1	4.3±0.1	4.3±0.1	2.3±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.30±0.05

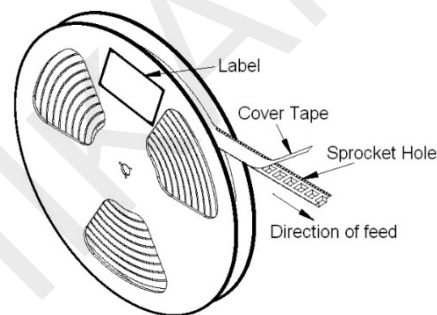
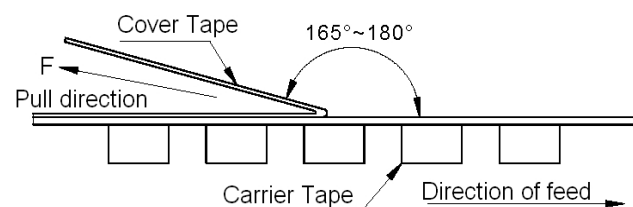
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	18.4Max.	Φ100±1.0	13.0±0.5



■ Taping Method

Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.0N	165°~180°	300mm/min.



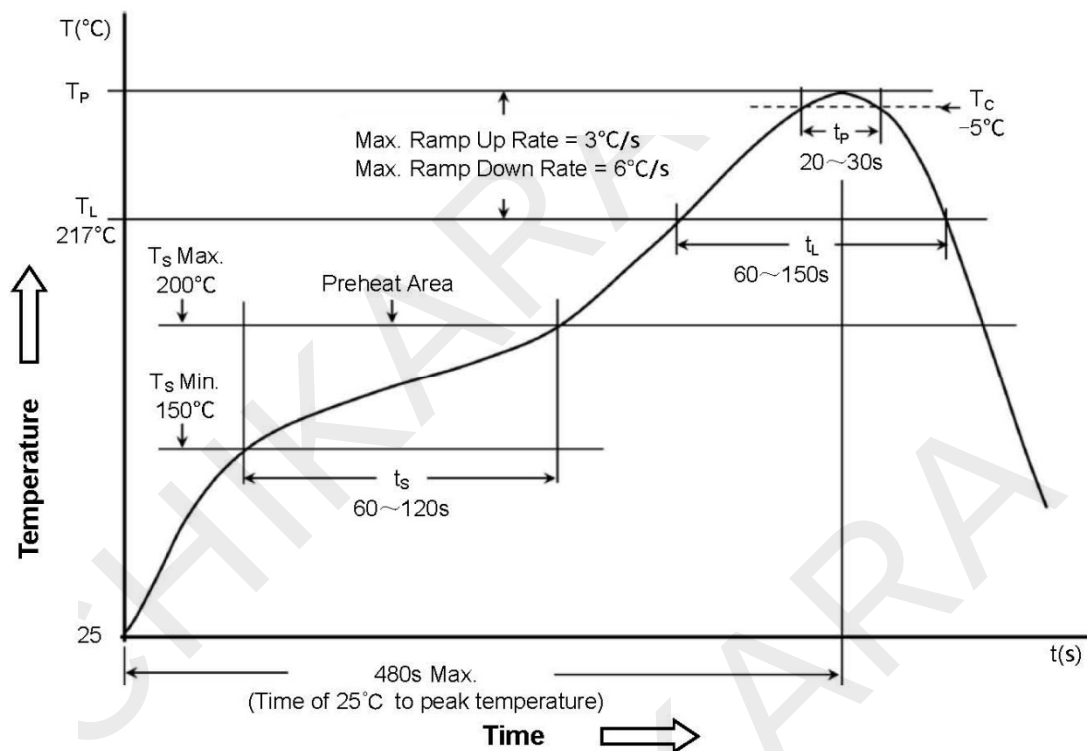
※ Packing is referred to the international standard IEC 60286-3.

■ Package Quantity

Parts per reel
3000Pcs

Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (Tp)

	Package Thickness	Package Volume		
		<350mm ³	350~2000mm ³	>2000mm ³
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.